

Title (en)  
Heat-storing apparatus.

Title (de)  
Wärmespeicher.

Title (fr)  
Accumulateur de chaleur.

Publication  
**EP 0074612 A1 19830323 (EN)**

Application  
**EP 82108266 A 19820908**

Priority  
• JP 13191982 A 19820730  
• JP 14230581 A 19810911

Abstract (en)  
[origin: US4561493A] A heat-storing vessel filled with a heat-storing material of latent heat type is provided with a fluid flow passage in thermal contact with the heat-storing material for passing a fluid for storing and releasing heat. By passing a hot fluid through the fluid flow passage, the heat-storing material in the heat-storing vessel is melted to store heat. By passing a cold fluid through the fluid flow passage, the heat-storing material in the heat-storing vessel is solidified to release heat. The heat-storing material contains a gelling agent to suppress a phase separation phenomenon. A low temperature part is provided at a part of the heat-storing vessel and the heat-storing material containing the gelling agent is retained in a solid state at the low temperature part to prevent supercooling of the heat-storing material.

IPC 1-7  
**F24J 3/00**; C09K 5/06

IPC 8 full level  
**F28D 20/02** (2006.01)

CPC (source: EP US)  
**F28D 20/02** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US)

Citation (search report)  
• [A] DE 2749030 A1 19780518 - SECR DEFENCE BRIT  
• [A] EP 0005362 A1 19791114 - UNIV AMERICAN TECH [US]  
• [AP] EP 0041386 A1 19811209 - BRITISH PETROLEUM CO PLC [GB]

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CH DE LI NL SE

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